

PATENT CLAIMS

1. Deflection device for a motor vehicle window lifter with
- 5 - a deflection element for guiding a traction means of the window lifter
 and
 - spring means for tightening the traction means,

characterised in that

10 the deflection element (3) is mounted movable on a socket (1) and in order to
 tighten the traction means (S) can be brought by the spring means (4)
 mounted on the socket (1) into a number of different positions on the socket
 (1) and that the socket (1) can be fixed together with the deflection element
15 (3) and the spring means (4) as one preassembled structural module on the
 window lifter.

2. Deflection device according to claim 1 **characterised in that** the socket (1)
 forms a housing.

- 20 3. Deflection device according to claim 1 or 2 **characterised in that** a guide (13,
 13', 13'') is provided on the socket (1) by means of which the deflection
 element (3) is guided so that it can be brought into different positions in order
 to tighten the traction means (S).

- 25 4. Deflection device according to one of the preceding claims **characterised in**
 that the deflection element (3) is mounted displaceable on the socket (1).

- 30 5. Deflection device according to claim 5 **characterised in that** the slider (2) and
 the deflection element (3) are formed by separate parts which are connected
 together.

- 35 6. Deflection device according to claim 6 **characterised in that** the deflection
 element (3) is fixed on the slider (2) by means of a stepped bolt (35) which
 engages through an opening (25) in the slider.

7. Deflection device according to claim 3 and one of claims 5 to 7 **characterised in that** the slider (2) is guided in the guide (13, 13', 13").
- 5 8. Deflection device according to one of claims 5 to 8 **characterised in that** the spring means (4) are formed by at least one pretensioned spring element (40, 41, 42) which engages on the slider (2) and has the tendency to move same so that the traction means (S) becomes taut.
- 10 9. Deflection device according to one of claims 5 to 9 **characterised in that** a fixing device (14a, 24; 5) is provided on the socket (1) in order to fix the slider (2) on the socket (1) so long as the preassembled structural unit (1, 2, 3, 4) is not yet mounted on the window lifter.
- 15 10. Deflection device according to claim 10 **characterised in that** the fixing device (14a, 24; 5) is provided for a positive locking connection e.g. a detent connection.
- 20 11. Deflection device according to claim 10 or 11 **characterised in that** the fixing device (14a, 24) can be automatically released through the action of the traction means (S) when the window lifter is brought into operation.
- 25 12. Deflection device according to one of the preceding claims **characterised in that** locking means (16, 26; 19, 29) are provided for locking the deflection element in different positions on the socket (1).
- 30 13. Deflection device according to claim 13 **characterised in that** the locking means (16, 26; 19, 29) are formed by positive locking means, more particularly by associated toothed regions.
14. Deflection device according to claim 14 **characterised in that** a toothed region (16, 19) is provided on the socket (1) or on an insert part (15, 18) fitted therein.

15. Deflection device according to claim 5 and 15 **characterised in that** another toothed region (26, 29) is provided on the slider (2).
- 5 16. Deflection device according to one of claims 14 to 16 **characterised in that** the toothed regions (19, 29) are each provided on one of two associated inclined planes (18, 28) which can be moved relative to each other.
- 10 17. Deflection device according to one of claims 13 to 17 **characterised in that** the locking means (16, 26; 19, 29) are locked during operation of the window lifter through the tension of the traction means (S).
- 15 18. Deflection device according to claim 18 **characterised in that** the locking means (16, 26; 19, 29) can be released during relaxation of the traction means so that the deflection element (3) can be moved under the action of the spring means (4) in order to tighten the traction means (S).
- 20 19. Deflection device according to one of the preceding claims **characterised in that** it is set up and provided for use with a path window lifter with several guideways (B) running parallel to each other for a follower of the window lifter.
- 25 20. Motor vehicle window lifter with
- a drive (A, G)
 - a traction means (S) which can be driven by the drive (A, G) and
 - a deflection device (U) for the traction means (S)
- characterised by**
- a deflection device (U) according to one of claims 1 to 20.
- 30 21. Window lifter according to claim 21 **characterised in that** the window lifter is designed as a path window lifter with several guideways (B) arranged side by side for at least one follower which is connected to the traction means (S).